

What Is Claimed Is:

1. Apparatus suitable for treating a vascular occlusion using rotational engagement with the occlusion, the apparatus comprising:

a thrombectomy wire having proximal and distal ends; and

at least one deployable wire having proximal and distal ends, the deployable wire having a contracted state that is substantially flush with the thrombectomy wire and a deployed state wherein the deployable wire extends radially outward from the thrombectomy wire.

2. The apparatus of claim 1 wherein the deployable wire comprises a shape-memory material.

3. The apparatus of claim 1 wherein the proximal and distal ends of the deployable wire are affixed to the thrombectomy wire.

4. The apparatus of claim 3 further comprising a tubular member, the tubular member configured to longitudinally slide over the thrombectomy wire and being adapted to contract the deployable wire when disposed in a distalmost position.

5. The apparatus of claim 1 wherein the distal end of the deployable wire is affixed to the thrombectomy wire and the proximal end of the deployable wire is affixed to a sliding member, the sliding member configured to slide longitudinally relative to the thrombectomy wire.

6. The apparatus of claim 5 wherein the deployable wire comprises at least one loop that surrounds the thrombectomy wire in the deployed state.

7. The apparatus of claim 1 wherein the deployable wire comprises a plurality of arrow-shaped wires having proximal and distal ends in the deployed state.

8. The apparatus of claim 7 wherein the distal ends of the arrow-shaped wires are affixed to each other at a distal point, and the proximal ends of the arrow-shaped wires connect to the thrombectomy wire.

9. The apparatus of claim 8 further comprising a tubular member configured to slide longitudinally relative to the tubular member and being adapted to contract the plurality of arrow-shaped wires when disposed in a distalmost position.

10. Apparatus suitable for treating a vascular occlusion using rotational engagement with the occlusion, the apparatus comprising:

a catheter having proximal and distal ends, and a first lumen extending therebetween; and

at least one deployable wire having proximal and distal ends, the deployable wire having a contracted state that is substantially flush with the catheter and a deployed state wherein the deployable wire extends radially outward from the catheter.

11. The apparatus of claim 10 wherein the deployable wire comprises a shape-memory material.

a ring affixed to the proximal end of the deployable wire, the ring comprising a groove configured to engage the rounded pin of the deployment knob to



rotating the deployable wire to engage and wrap and the occlusion around the deployable wire.

20. The method of claim 19 wherein rotating the deployable wire comprises rotating the catheter, the catheter being in communication with the deployable wire.